

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,246	12/03/2003	Nigel V. Spurr	Н0005898	5403
75	90 05/30/2006		EXAM	INER
Kris T. Fredrick			LUGO, CARLOS	
Honeywell Inte	•		APTIBUT	DADED MUMBER
101 Columbia Rd.			ART UNIT	PAPER NUMBER
P.O. Box 2245			3676	
Morristown, NJ 07962			DATE MAILED: 05/30/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/727,246	SPURR ET AL.				
Office Action Summary	Examiner	Art Unit				
	Carlos Lugo	3676				
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 30 M	larch 2006					
	action is non-final.					
3) Since this application is in condition for allowar		secution as to the merits is				
closed in accordance with the practice under E	•					
Disposition of Claims						
4) Claim(s) 22-41 is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	•					
6)⊠ Claim(s) <u>22-41</u> is/are rejected.						
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>22 April 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	• •				
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119	,					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	·	ed in this National Stage				
application from the International Bureau	' ''					
* See the attached detailed Office action for a list	or the certified copies not receive	ca.				
Attachment(s)	,, □	(DTO 440)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	,	atent Application (PTO-152)				

Application/Control Number: 10/727,246 Page 2

Art Unit: 3676

DETAILED ACTION

1. This Office Action is in response to applicant's amendment filed on March 30, 2006

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 22-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over US

Pat No 5,765,884 to Armbruster in view of US Pat No 5,304,926 to Wu.

Regarding claims 22 and 32, Armbruster discloses a latch assembly control

system method comprising the steps of integrating a latch assembly (Figure 1) with a

motor (53) having at least one gear (26) for actuating a plurality of components of the

latch assembly.

Associating a gear sensor (37) with the latch assembly. The gear sensor will

sense the movement of the gear to thereby sense the position of the at least one

gear to thereby provide a reference point registration and calibration via the collected

data (Col. 5 Line 27 to Col. 6 Line 5). The gear will complete less than one revolution

to obtain the data.

However, Armbruster fails to disclose that the gear sensor will sense the position

of a gear tooth. Armbruster sensor (37) senses the position of the gear body.

Wu teaches that it is well known in the art to provide a gear sensor (10) that

would sense the position of a gear tooth (26).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the sensor described by Armbruster sensing the gear tooth, as taught by Wu, since regardless where the sensor is positioned with respect to the gear, it would collect the data regarding the position of the gear.

As to claims 23 and 33, Armbruster fails to disclose that the sensor has a magnet. Armbruster disclose that the sensor cooperates with a magnet (50) at the shaft (56).

Wu teaches that it is well known in the art to provide the magnet at a Hall sensor so as to sense the position of the gear.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device described by Armbruster with the magnet at the Hall sensor, instead on the gear, as taught by Wu, since the position of the magnet at the device will be considered as a design consideration within the art since it would not affect the data collection by the sensor with respect to the gear.

As to claims 24 and 34, Armbruster discloses that the latch assembly is provided in a vehicle door.

As to claims 25 and 35, Armbruster discloses that the gear tooth sensor is integrated with the latch assembly (Figure 1).

As to claims 26,36 and 41, Armbruster discloses that the system further includes a vehicle management module (35).

As to claims 27 and 37, Armbruster discloses that the sensor will communicate data recollected from the gear.

As to claims 28 and 38, Armbruster discloses that the controlling is made by the vehicle management module (Col. 5 line 58 to Col. 6 Line 5).

As to claims 29,30,39 and 40, Armbruster fails to disclose a plurality of gear tooth sensors to collect data from the gear.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have more than one sensor in a device as Armbruster disclose in order to obtain more accurate data.

As to claim 31, Armbruster discloses that at least one component of the door latch assembly is actuated by the vehicle management module based on data collected from the at least one gear tooth sensor.

Response to Arguments

4. Applicant's arguments filed March 30, 2006 have been fully considered but they are not persuasive.

After further consideration, the 102(b) rejection in view of Armbruster has been withdrawn since Armbruster sensor 37 do not sense the position of the gear tooth; it sense the position of the gear body. Nevertheless, a new rejection in view of Armbruster, as modified by Wu has been made on the record.

As to the arguments presented by the applicant with respect that it would not be obvious to combine the teachings of Wu into the device described by Armbruster (Page 9 Line 8), the arguments are not persuasive. Wu clearly teach that it would be obvious to provide the magnet at the sensor, instead of the gear, so as to collect data of the position of the gear tooth. Therefore, the rejection is maintained.

Application/Control Number: 10/727,246

Art Unit: 3676

Conclusion

Page 5

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Lugo whose telephone number 571-272-7058.
The examiner can normally be reached on 9-6pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on 571-272-6843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-5771.

Carlos Lugo

Patent Examiner AU 3676

May 24, 2006.